GOVERNMENT OF INDIA
POWER
LOK SABHA

UNSTARRED QUESTION NO:2601
ANSWERED ON:18.12.2003
GENERATION OF POWER
SATYAVRAT CHATURVEDI

Will the Minister of POWER be pleased to state:

(a) the total generation of power from hydel, thermal and atomic sources separately from the last three Five Year Plans;

(b) the details of per megawatt generation cost for each category;

(c) whether the Government has taken any steps to promote the generation of hydroelectricity;

(d) if not, the reasons therefor;

(e) whether the Government propose to generate power from the sea also like China; and

(f) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA)

(a) : The plan wise energy generation from Thermal, Nuclear and Hydro powerstations in the country for the last three Five Year Plans are as under:

	7th Plan (1985-86 to 1989-90)	8th Plan (1992-93 to 1996-97)	9th Plan (1997-98 to 2001-02)
Thermal	728301	1351874	1906679
Nuclear	25479	34782	71572
Hydro	271852	363850	386215
Total	1025632	1750506	2364466

(b) : Cost of generation varies from station to station. As per information available for various State Electricity Boards Power utilities for the year 2000-01, the generation cost varied from about 115 to 350 paise/kwh for coal based power stations, from 4.80 paise to 588 paise/kwh for hydro and from 162 paise to 187 paise/kwh for gas based power stations. Tariff for sale of power from various atomic power stations of Nuclear Power Corporation of India Limited varied from 82.36 to 295 paise/kwh.

(c) : Yes, Sir.

(d) : Does not arise, in view of (c) above.

(e) & (f) : According to the Department of Ocean Development, Government of India, the National Institute of Ocean Technology (NIOT) is in the final stage of commissioning of a 1MW Ocean Thermal Energy Conversion (OTEC) Plant. Whencommissioned, it will be the first floating plant of this rating in the world. The plant is a demonstration plant and several data will be collected for performance evaluation. The wave energy plant based on Oscillating Water Column Principal at Vizhinjam wasestablished in 1991. The plant has an installed capacity of 50 KW. Since the wave energyis varying at a frequency of 0.1Hz, the best average power obtained was 10KW with the peak of 80KW.

According to Ministry of Non-conventional Energy Sources, the West BengalRenewable Energy Development Agency (WBREDA), West Bengal is conducting environment impact assessment study for setting up a mini tidal power project of about 3.6MW capacity at Durgaduani in South 24-Pargana district of West Bengal.